

YEROSHENOV, A. M., KUDILATSEV, IVAN VASIL'EVICH, and SAVELIN, N. I.

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DIC: TS320.K8

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Dmitrii Ivanovich Riabchikov; on his fiftieth birthday. Zhur.anal.khim.

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(MLRA 8:1)

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"The helicopter."

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"The rocket aeroplane."

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SO: Monthly List of East European Accessions, Vol 2 No 9 Library of Congress Sept 53 Uncl

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"Uric acid in red bilberry fruits. " by A. A. Riabinin (p. 774)

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Rabinovich, A. G.

17268. Glib, A. A. and Rabinovich, A. G. Approximate integration of equations for two-dimensional stationary supersonic gas flow (in Russian). Doklady Akad. Nauk SSSR (N.S.) 100:3:425-428/1955.

Author gives an approximate solution of equations for two-dimensional stationary supersonic gas flow for Mach numbers contained in the interval $1.15 \leq M \leq 2.35$, using for this interval of Mach numbers an approximate equation

$$\alpha = \sigma$$

where

$$\alpha = \arcsin(1/M), \quad \sigma = 1 - \int_1^x (\lambda^2 - 1) / [1 - (x - 1/x + 1)\lambda^2]^{-1/2} dx$$

$$(d\lambda/\lambda), \quad \lambda = W/\alpha.$$

He makes use of these results to solve some boundary-value problems for two-dimensional supersonic gas flow. In the end, author remarks that for $M > 2.35$ it is possible to approximate to the function $\alpha = \alpha/\sigma$ by the linear function

$$\alpha = 0.236\sigma + 0.284$$

from which one can obtain, in certain cases, an approximate solution for those Mach numbers.

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M. Kishinbuluk. (*Coke and Iron*, 1918, No. 10,
pp. 116-117). *Chemical Industry* 38, 14; *Semikoke*
that has been coked independently and added to the coal
never passes through the fused state and therefore has no
plastic layer. When added to coking coal, however, it is
not completely indifferent; e. g., its influence on the
strength of the coke produced depends on whether it is
added to coal of the same or a different type from that
from which it was itself produced. The temp. at which
the semikoke was carbonized and its uniformity also affect
the mech. properties of the coke. On the other hand,
the quality of the coke is entirely independent of the solv.
of the semikoke; it is rather the dynamics of the contraction
during coking and the final value of the contraction
which have an effect. In order to obtain a good coke the
contraction characteristics of the semikoke and the coal
should be approx. the same. Coking of coal-semikoke
mixts. should be carried out in ovens operated at high
temp. (of the order of 1100°). A. P.-C.

A. P.-C.

A 10.314 METALLURGICAL LITERATURE CLASSIFICATION

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DLC: TH6552.R5

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The chief results of an analysis of millet [*Panicum miliaceum*], oats, and winter wheat attacked by winter wheat mosaic virus [see preceding abstract] and of healthy control plants were that in diseased plants (1) the mono- and disaccharides (and in the case of millet only the combined content of starch and hemicellulose) are greatly increased in amount; (2) the total and protein nitrogen is somewhat lower; and (3) the phosphorus content of the leaves tends to be lower.

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1. Okruzhna bolnitsa Racho Angelov, Sofia. Ochno otdelenie.
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results)

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Card 2/2

Call No.: TS1548.5.R5, 1952

Full Title: SYNTHETIC FIBER TECHNOLOGY, 2nd revised and supplemented edition

Facilities: None.

No. of Russian References: 18

Available: Library of Congress.

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COMMON ELEMENTS																			
COMMON VARIABLES INDEX																			
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1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
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DLC: DK861.A55R5

CU ICU NN WaU
SO: LC, Soviet Geography, Part II, 1951, Unclassified

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BC										B-II-1																			
Synthesis of methyl vinyl ketone by hydration of vinyl acetylene under pressure. A. N. Tscherbakov and V. M. Rinsakov. (From. Org. Chem., 1940, 7, 663-666).— $\text{CH}_2=\text{C}(\text{OH})\text{CH}_3$ is obtained in 70% yield by shaking a solution of 250 g. of $\text{CH}_2=\text{C}(\text{OH})\text{CH}_3$ in 1 l. of H_2O with 276 g. of H_2SO_4 and 10 g. of H_2O for 8-5 hr. at 50-55°. Polyvinylacetylene and $\text{OH}-\text{CH}_2-\text{C}(\text{OH})-\text{CO}-\text{Me}$ are obtained as by-products. R. T.																													
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION EXTRACTED FROM																													
1ST ORDER										2ND ORDER										3RD ORDER									
ALPHABETICALLY BY SUBJECT										BY AUTHOR OR EDITOR										BY TITLE									
1ST ALPHABETICALLY										1ST BY AUTHOR OR EDITOR										1ST BY TITLE									
2ND ALPHABETICALLY										2ND BY AUTHOR OR EDITOR										2ND BY TITLE									
3RD ALPHABETICALLY										3RD BY AUTHOR OR EDITOR										3RD BY TITLE									
4TH ALPHABETICALLY										4TH BY AUTHOR OR EDITOR										4TH BY TITLE									

1ST AND 2ND SERIES										3RD AND 4TH SERIES									
PROCESSING AND PROPERTIES INDEX																			
3C 0.3 Synthesis of metal-mercury alloys by reduction of vinyl compounds. A. M. Tikhonov and V. A. Shadrin. <i>U.S.S.R. Chem. Rev.</i> 1964, 43, 1000-1001, 1002-1003, 1004-1005, 1006-1007, 1008-1009, 1010-1011, 1012-1013, 1014-1015, 1016-1017, 1018-1019, 1020-1021, 1022-1023, 1024-1025, 1026-1027, 1028-1029, 1030-1031, 1032-1033, 1034-1035, 1036-1037, 1038-1039, 1040-1041, 1042-1043, 1044-1045, 1046-1047, 1048-1049, 1050-1051, 1052-1053, 1054-1055, 1056-1057, 1058-1059, 1060-1061, 1062-1063, 1064-1065, 1066-1067, 1068-1069, 1070-1071, 1072-1073, 1074-1075, 1076-1077, 1078-1079, 1080-1081, 1082-1083, 1084-1085, 1086-1087, 1088-1089, 1090-1091, 1092-1093, 1094-1095, 1096-1097, 1098-1099, 1100-1101, 1102-1103, 1104-1105, 1106-1107, 1108-1109, 1110-1111, 1112-1113, 1114-1115, 1116-1117, 1118-1119, 1120-1121, 1122-1123, 1124-1125, 1126-1127, 1128-1129, 1130-1131, 1132-1133, 1134-1135, 1136-1137, 1138-1139, 1140-1141, 1142-1143, 1144-1145, 1146-1147, 1148-1149, 1150-1151, 1152-1153, 1154-1155, 1156-1157, 1158-1159, 1160-1161, 1162-1163, 1164-1165, 1166-1167, 1168-1169, 1170-1171, 1172-1173, 1174-1175, 1176-1177, 1178-1179, 1180-1181, 1182-1183, 1184-1185, 1186-1187, 1188-1189, 1190-1191, 1192-1193, 1194-1195, 1196-1197, 1198-1199, 1200-1201, 1202-1203, 1204-1205, 1206-1207, 1208-1209, 1210-1211, 1212-1213, 1214-1215, 1216-1217, 1218-1219, 1220-1221, 1222-1223, 1224-1225, 1226-1227, 1228-1229, 1230-1231, 1232-1233, 1234-1235, 1236-1237, 1238-1239, 1240-1241, 1242-1243, 1244-1245, 1246-1247, 1248-1249, 1250-1251, 1252-1253, 1254-1255, 1256-1257, 1258-1259, 1260-1261, 1262-1263, 1264-1265, 1266-1267, 1268-1269, 1270-1271, 1272-1273, 1274-1275, 1276-1277, 1278-1279, 1280-1281, 1282-1283, 1284-1285, 1286-1287, 1288-1289, 1290-1291, 1292-1293, 1294-1295, 1296-1297, 1298-1299, 1300-1301, 1302-1303, 1304-1305, 1306-1307, 1308-1309, 1310-1311, 1312-1313, 1314-1315, 1316-1317, 1318-1319, 1320-1321, 1322-1323, 1324-1325, 1326-1327, 1328-1329, 1330-1331, 1332-1333, 1334-1335, 1336-1337, 1338-1339, 1340-1341, 1342-1343, 1344-1345, 1346-1347, 1348-1349, 1350-1351, 1352-1353, 1354-1355, 1356-1357, 1358-1359, 1360-1361, 1362-1363, 1364-1365, 1366-1367, 1368-1369, 1370-1371, 1372-1373, 1374-1375, 1376-1377, 1378-1379, 1380-1381, 1382-1383, 1384-1385, 1386-1387, 1388-1389, 1390-1391, 1392-1393, 1394-1395, 1396-1397, 1398-1399, 1400-1401, 1402-1403, 1404-1405, 1406-1407, 1408-1409, 1410-1411, 1412-1413, 1414-1415, 1416-1417, 1418-1419, 1420-1421, 1422-1423, 1424-1425, 1426-1427, 1428-1429, 1430-1431, 1432-1433, 1434-1435, 1436-1437, 1438-1439, 1440-1441, 1442-1443, 1444-1445, 1446-1447, 1448-1449, 1450-1451, 1452-1453, 1454-1455, 1456-1457, 1458-1459, 1460-1461, 1462-1463, 1464-1465, 1466-1467, 1468-1469, 1470-1471, 1472-1473, 1474-1475, 1476-1477, 1478-1479, 1480-1481, 1482-1483, 1484-1485, 1486-1487, 1488-1489, 1490-1491, 1492-1493, 1494-1495, 1496-1497, 1498-1499, 1500-1501, 1502-1503, 1504-1505, 1506-1507, 1508-1509, 1510-1511, 1512-1513, 1514-1515, 1516-1517, 1518-1519, 1520-1521, 1522-1523, 1524-1525, 1526-1527, 1528-1529, 1530-1531, 1532-1533, 1534-1535, 1536-1537, 1538-1539, 1540-1541, 1542-1543, 1544-1545, 1546-1547, 1548-1549, 1550-1551, 1552-1553, 1554-1555, 1556-1557, 1558-1559, 1560-1561, 1562-1563, 1564-1565, 1566-1567, 1568-1569, 1570-1571, 1572-1573, 1574-1575, 1576-1577, 1578-1579, 1580-1581, 1582-1583, 1584-1585, 1586-1587, 1588-1589, 1590-1591, 1592-1593, 1594-1595, 1596-1597, 1598-1599, 1600-1601, 1602-1603, 1604-1605, 1606-1607, 1608-1609, 1610-1611, 1612-1613, 1614-1615, 1616-1617, 1618-1619, 1620-1621, 1622-1623, 1624-1625, 1626-1627, 1628-1629, 1630-1631, 1632-1633, 1634-1635, 1636-1637, 1638-1639, 1640-1641, 1642-1643, 1644-1645, 1646-1647, 1648-1649, 1650-1651, 1652-1653, 1654-1655, 1656-1657, 1658-1659, 1660-1661, 1662-1663, 1664-1665, 1666-1667, 1668-1669, 1670-1671, 1672-1673, 1674-1675, 1676-1677, 1678-1679, 1680-1681, 1682-1683, 1684-1685, 1686-1687, 1688-1689, 1690-1691, 1692-1693, 1694-1695, 1696-1697, 1698-1699, 1700-1701, 1702-1703, 1704-1705, 1706-1707, 1708-1709, 1710-1711, 1712-1713, 1714-1715, 1716-1717, 1718-1719, 1720-1721, 1722-1723, 1724-1725, 1726-1727, 1728-1729, 1730-1731, 1732-1733, 1734-1735, 1736-1737, 1738-1739, 1740-1741, 1742-1743, 1744-1745, 1746-1747, 1748-1749, 1750-1751, 1752-1753, 1754-1755, 1756-1757, 1758-1759, 1760-1761, 1762-1763, 1764-1765, 1766-1767, 1768-1769, 1770-1771, 1772-1773, 1774-1775, 1776-1777, 1778-1779, 1780-1781, 1782-1783, 1784-1785, 1786-1787, 1788-1789, 1790-1791, 1792-1793, 1794-1795, 1796-1797, 1798-1799, 1800-1801, 1802-1803, 1804-1805, 1806-1807, 1808-1809, 1810-1811, 1812-1813, 1814-1815, 1816-1817, 1818-1819, 1820-1821, 1822-1823, 1824-1825, 1826-1827, 1828-1829, 1830-1831, 1832-1833, 1834-1835, 1836-1837, 1838-1839, 1840-1841, 1842-1843, 1844-1845, 1846-1847, 1848-1849, 1850-1851, 1852-1853, 1854-1855, 1856-1857, 1858-1859, 1860-1861, 1862-1863, 1864-1865, 1866-1867, 1868-1869, 1870-1871, 1872-1873, 1874-1875, 1876-1877, 1878-1879, 1880-1881, 1882-1883, 1884-1885, 1886-1887, 1888-1889, 1890-1891, 1892-1893, 1894-1895, 1896-1897, 1898-1899, 1900-1901, 1902-1903, 1904-1905, 1906-1907, 1908-1909, 1910-1911, 1912-1913, 1914-1915, 1916-1917, 1918-1919, 1920-1921, 1922-1923, 1924-1925, 1926-1927, 1928-1929, 1930-1931, 1932-1933, 1934-1935, 1936-1937, 1938-1939, 1940-1941, 1942-1943, 1944-1945, 1946-1947, 1948-1949, 1950-1951, 1952-1953, 1954-1955, 1956-1957, 1958-1959, 1960-1961, 1962-1963, 1964-1965, 1966-1967, 1968-1969, 1970-1971, 1972-1973, 1974-1975, 1976-1977, 1978-1979, 1980-1981, 1982-1983, 1984-1985, 1986-1987, 1988-1989, 1990-1991, 1992-1993, 1994-1995, 1996-1997, 1998-1999, 2000-2001, 2002-2003, 2004-2005, 2006-2007, 2008-2009, 2010-2011, 2012-2013, 2014-2015, 2016-2017, 2018-2019, 2020-2021, 2022-2023, 2024-2025, 2026-2027, 2028-2029, 2030-2031, 2032-2033, 2034-2035, 2036-2037, 2038-2039, 2040-2041, 2042-2043, 2044-2045, 2046-2047, 2048-2049, 2050-2051, 2052-2053, 2054-2055, 2056-2057, 2058-2059, 2060-2061, 2062-2063, 2064-2065, 2066-2067, 2068-2069, 2070-2071, 2072-2073, 2074-2075, 2076-2077, 2078-2079, 2080-2081, 2082-2083, 2084-2085, 2086-2087, 2088-2089, 2090-2091, 2092-2093, 2094-2095, 2096-2097, 2098-2099, 2100-2101, 2102-2103, 2104-2105, 2106-2107, 2108-2109, 2110-2111, 2112-2113, 2114-2115, 2116-2117, 2118-2119, 2120-2121, 2122-2123, 2124-2125, 2126-2127, 2128-2129, 2130-2131, 2132-2133, 2134-2135, 2136-2137, 2138-2139, 2140-2141, 2142-2143, 2144-2145, 2146-2147, 2148-2149, 2150-2151, 2152-2153, 2154-2155, 2156-2157, 2158-2159, 2160-2161, 2162-2163, 2164-2165, 2166-2167, 2168-2169, 2170-2171, 2172-2173, 2174-2175, 2176-2177, 2178-2179, 2180-2181, 2182-2183, 2184-2185, 2186-2187, 2188-2189, 2190-2191, 2192-2193, 2194-2195, 2196-2197, 2198-2199, 2200-2201, 2202-2203, 2204-2205, 2206-2207, 2208-2209, 2210-2211, 2212-2213, 2214-2215, 2216-2217, 2218-2219, 2220-2221, 2222-2223, 2224-2225, 2226-2227, 2228-2229, 2230-2231, 2232-2233, 2234-2235, 2236-2237, 2238-2239, 2240-2241, 2242-2243, 2244-2245, 2246-2247, 2248-2249, 2250-2251, 2252-2253, 2254-2255, 2256-2257, 2258-2259, 2260-2261, 2262-2263, 2264-2265, 2266-2267, 2268-2269, 2270-2271, 2272-2273, 2274-2275, 2276-2277, 2278-2279, 2280-2281, 2282-2283, 2284-2285, 2286-2287, 2288-2289, 2290-2291, 2292-2293, 2294-2295, 2296-2297, 2298-2299, 2300-2301, 2302-2303, 2304-2305, 2306-2307, 2308-2309, 2310-2311, 2312-2313, 2314-2315, 2316-2317, 2318-2319, 2320-2321, 2322-2323, 2324-2325, 2326-2327, 2328-2329, 2330-2331, 2332-2333, 2334-2335, 2336-2337, 2338-2339, 2340-2341, 2342-2343, 2344-2345, 2346-2347, 2348-2349, 2350-2351, 2352-2353, 2354-2355, 2356-2357, 2358-2359, 2360-2361, 2362-2363, 2364-2365, 2366-2367, 2368-2369, 2370-2371, 2372-2373, 2374-2375, 2376-2377, 2378-2379, 2380-2381, 2382-2383, 2384-2385, 2386-2387, 2388-2389, 2390-2391, 2392-2393, 2394-2395, 2396-2397, 2398-2399, 2400-2401, 2402-2403, 2404-2405, 2406-2407, 2408-2409, 2410-2411, 2412-2413, 2414-2415, 2416-2417, 2418-2419, 2420-2421, 2422-2423, 2424-2425, 2426-2427, 2428-2429, 2430-2431, 2432-2433, 2434-2435, 2436-2437, 2438-2439, 2440-2441, 2442-2443, 2444-2445, 2446-2447, 2448-2449, 2450-2451, 2452-2453, 2454-2455, 2456-2457, 2458-2459, 2460-2461, 2462-2463, 2464-2465, 2466-2467, 2468-2469, 2470-2471, 2472-2473, 2474-2475, 2476-2477, 2478-2479, 2480-2481, 2482-2483, 2484-2485, 2486-2487, 2488-2489, 2490-2491, 2492-2493, 2494-2495, 2496-2497, 2498-2499, 2500-2501, 2502-2503, 2504-2505, 2506-2507, 2508-2509, 2510-2511, 2512-2513, 2514-2515, 2516-2517, 2518-2519, 2520-2521, 2522-2523, 2524-2525, 2526-2527, 2528-2529, 2530-2531, 2532-2533, 2534-2535, 2536-2537, 2538-2539, 2540-2541, 2542-2543, 2544-2545, 2546-2547, 2548-2549, 2550-2551, 2552-2553, 2554-2555, 2556-2557, 2558-2559, 2560-2561, 2562-2563, 2564-2565, 2566-2567, 2568-2569, 2570-2571, 2572-2573, 2574-2575, 2576-2577, 2578-2579, 2580-2581, 2582-2583, 2584-2585, 2586-2587, 2588-2589, 2590-2591, 2592-2593, 2594-2595, 2596-2597, 2598-2599, 2600-2601, 2602-2603, 2604-2605, 2606-2607, 2608-2609, 2610-2611, 2612-2613, 2614-2615, 2616-2617, 2618-2619, 2620-2621, 2622-2623, 2624-2625, 2626-2627, 2628-2629, 2630-2631, 2632-2633, 2634-2635, 2636-2637, 2638-2639, 2640-2641, 2642-2643, 2644-2645, 2646-2647, 2648-2649, 2650-2651, 2652-2653, 2654-2655, 2656-2657, 2658-2659, 2660-2661, 2662-2663, 2664-2665, 2666-2667, 2668-2669, 2670-2671, 2672-2673, 2674-2675, 2676-2677, 2678-2679, 2680-2681, 2682-2683, 2684-2685, 2686-2687, 2688-2689, 2690-2691, 2692-2693, 2694-2695, 2696-2697, 2698-2699, 2700-2701, 2702-2703, 2704-2705, 2706-2707, 2708-2709, 2710-2711, 2712-2713, 2714-2715, 2716-2717, 2718-2719, 2720-2721, 2722-2723, 2724-2725, 2726-2727, 2728-2729, 2730-2731, 2732-2733, 2734-2735, 2736-2737, 2738-2739, 2740-2741, 2742-2743, 2744-2745, 2746-2747, 2748-2749, 2750-2751, 2752-2753, 2754-2755, 2756-2757, 2758-2759, 2760-2761, 2762-2763, 2764-2765, 2766-2767, 2768-2769, 2770-2771, 2772-2773, 2774-2775, 2776-2777, 2778-2779, 2780-2781, 2782-2783, 2784-2785, 2786-2787, 2788-2789, 2790-2791, 2792-2793, 2794-2795, 2796-2797, 2798-2799, 2800-2801, 2802-2803, 2804-2805, 2806-2807, 2808-2809, 2810-2811, 2812-2813, 2814-2815, 2816-2817, 2818-2819, 2820-2821, 2822-2823, 2824-2825, 2826-2827, 2828-2829, 2830-2831, 2832-2833, 2834-2835, 2836-2837, 2838-2839, 2840-2841, 2842-2843, 2844-2845, 2846-2847, 2848-2849, 2850-2851, 2852-2853, 2854-2855, 2856-2857, 2858-2859, 2860-2861, 2862-2863, 2864-2865, 2866-2867, 2868-2869, 2870-2871, 2872-2873, 2874-2875, 2876-2877, 2878-2879, 2880-2881, 2882-2883, 2884-2885, 2886-2887, 2888-2889, 2890-2891, 2892-2893, 2894-2895, 2896-2897, 2898-2899, 2900-2901, 2902-2903, 2904-2905, 2906-2907, 2908-2909, 2910-2911, 2912-2913, 2914-2915, 2916-2917, 2918-2919, 2920-2921, 2922-2923, 2924-2925, 2926-2927, 2928-2929, 2930-2931, 2932-2933, 2934-2935, 2936-2937, 2938-2939, 2940-2941, 2942-2943, 2944-2945, 2946-2947, 2948-2949, 2950-2951, 2952-2953, 2954-2955, 2956-2957, 2958-2959, 2960-2961, 2962-2963, 2964-2965, 2966-2967, 2968-2969, 2970-2971, 2972-2973, 2974-2975, 2976-2977, 2978-2979, 2980-2981, 2982-2983, 2984-2985, 2986-2987, 2988-2989, 2990-2991, 2992-2993, 2994-2995, 2996-2997, 2998-2999, 3000-3001, 3002-3003, 3004-3005, 3006-3007, 3008-3009, 3010-3011, 3012-3013, 3014-3015, 3016-3017, 3018-3019, 3020-3021, 3022-3023, 3024-3025, 3026-3027, 3028-3029, 3030-3031, 3032-3033, 3034-3035, 3036-3037, 3038-3039, 3040-3041, 3042-3043, 3044-3045, 3046-3047, 3048-3049, 3050-3051, 3052-3053, 3054-3055, 3056-3057, 3058-3059, 3060-3061, 3062-3063, 3064-3065, 3066-3067, 3068-3069, 3070-3071, 3072-3073, 3074-3075, 3076-3077, 3078-3079, 3080-3081, 3082-3083, 3084-3085, 3086-3087, 3088-3089, 3090-3091, 3092-3093, 3094-3095, 3096-3097, 3098-3099, 3100-3101, 3102-3103, 3104-3105, 3106-3107, 3108-3109, 3110-3111, 3112-3113, 3114-3115, 3116-3117, 3118-3119, 3120-3121, 3122-3123, 3124-3125, 3126-3127, 3128-3129, 3130-3131, 3132-3133, 3134-3135, 3136-3137, 3138-3139, 3140-3141, 3142-3143, 3144-3145, 3146-3147, 3148-3149, 3150-3151, 3152-3153, 3154-3155, 3156-3157, 3158-3159, 3160-3161, 3162-3163, 3164-3165, 3166-3167, 3168-3169, 3170-3171, 3172-3173, 3174-3175, 3176-3177, 3178-3179, 3180-3181, 3182-3183, 3184-3185, 3186-3187, 3188-3189, 3190-3191, 3192-3193, 3																			

PROCEDURES AND PRESENTED INDEX																									
Biochemical changes in wheat grain under the action of high temperatures. V. I. Kretovich and K. N. Riantzeva. <i>Compt. rend. acad. sci. U. R. S. S. (N. S.)</i>, 3, 400-42(1935); cf. C. A. 20, 490. Samples of various grains were heated in a chamber and the solv. of gliadin in EtOH, hydration of gluten and the activities of catalase and diastase measured. Denaturation of gliadin was increased on heating to 90-130°. The hydration of gluten was markedly decreased. Catalase activity is sharply cut on heating to 90° even with quite dry grain. The diastase activity increased markedly at 90-95°, and only relatively high temp., 105°, caused a decrease in H₂O, but in phosphate-citrate buffer it is resistant to even these temps. Control of grain drying and hot-conditioning could be based upon detn. of catalase activity. C. E. P. J.																									
ASTM 5.1.4 METALLURGICAL LITERATURE CLASSIFICATION																									

SERGEEV, P.G.; RIAZANTSEVA, N.E.; SHROIT, I.Q.

The dynamics of pathological processes in experimental measles in monkeys. Acta virol. Engl. Ed. Praha 4 no.5:265-273 S'60.

1. The Measles Laboratory, Ivanovsky Institute of Virology,
U.S.S.R., Academy of Medical Sciences, Moscow, and the Moldavian
Institute of Epidemiology, Microbiology and Hygiene, Kishinev.
(MEASLES exper)

1ST AND 2ND ORDERS																										3RD AND 4TH ORDERS																																																																																																																																	
PROCESSES AND PROPERTIES INDEX																																																																																																																																																											
*Plating of Light Alloys by the Method of Dipping in Fused Salts. K. P. Lebedev and T. K. Rinzhakina (<i>Trudi Nauchno-Issledovatel'skogo Instituta Legkikh Metallov</i>—"<i>NIISALUMINT</i>" (Transactions of the Scientific Research Institute for Light Metals—"<i>NIISALUMINT</i>"), 1932, (1-2), 82-84). [In Russian.] Metal coatings were obtained by dipping aluminium, Duralumin, and Elektron in molten salts of zinc, copper, nickel, cadmium, and chromium. The best results for aluminium and its alloys were obtained by coating it with zinc in a mixture of the chlorides of zinc 75, potassium 12.6, and sodium 12.6% at 425° C. for 3-5 minutes. Copper-plating was unsatisfactory, whilst the other metals require further experiments.— D. N. S.																																																																																																																																																											
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BRENCIS, K.; RIBA, J.; VOLBERGS, K., red.; CAKSS, J., tekhn. red.

[Maintaining swine in large groups] Cuku turesana lielas grupas. Riga, Latvijas Valsts izdevnieciba, 1961. 27 p.
(MIRA 15:3)

(Latvia—Swine)

COUNTRY : Bulgaria
CATEGORY :

H-13

ABS. JOUR. : AZKhia., No. 21 1959, No.

75577

AUTHOR : Ribagin, S.
TITLE : Not given
TITLE : Ceramic Paints

ORIG. PUB. : Leka Promishlenost, 7, No 4, 16-19 (1958)

ABSTRACT : The compositions of ceramic paints (CP) for porcelain and pottery wares are listed. The following types of overglaze CP are distinguished in Czechoslovakia, depending on the temperature: Class A with an mp of under 700°, Class B with an mp of 700-720°, Class C with an mp of 740-760°, and Class D with an mp of over 780°. The pigments used are produced from the oxides or salts of the following metals: Co, Cr, Fe, Ni, Al, Zn, Sn, etc. Formulas for a number of fluxes and

CARD: 1/2

MIRAGIN, S.

Ceramic dyes. p. 16
Leka Promishlenost Vol. 7, No. 4, 1958. Sofia Bulgaria.

Monthly Index of East European Accessions (MEAI) LC, Vol. 7, No. 10
Oct. 58

RIBAGIN, Simeon, inz.

Experience with baking porcelain in electric tunnel kiln. Sklar a
keramik 13 no.2:38-40 F '63.

1. Komitet pro prumysl, Sofie, Bulgaria.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
BC A-3 Effect of the reaction of fodder on the oxidative processes in horses. M. F. GULI, P. J. RIBAN, and M. A. KOLOMYCHENKO (Ukrain. Biochem. J., 1958, 9, 525-528).—Determinations of the urinary excretion of PhOH subcutaneously injected into groups of horses, fed on two rations, one more alkaline than the other, shows that oxidation processes are more complete with the less alkaline diet. The quantity of conjugated PhOH follows the quantity of total PhOH excreted, but is independent of the alkalinity of the diet. F. A. A.																			
ASAC 11.4 METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									

1ST AND 2ND ORDER		PROCESS AND PROPERTIES INDEX		3RD AND 4TH ORDER	
BC A-4 Effect of acid and alkaline ration on metabolism and related factors of horses during work. F. J. Schatz, M. F. Gell, L. I. Gersmann, and S. L. Woodman (<i>Urbain. Biochem. J.</i>, 1948, 32, 557-569).—After fatiguing work the pulse beat, rate of respiration, and increase of body temp. are usually lower in horses on an acid diet and return more quickly to normal than during alkaline feeding. The alkali reserve of blood is generally lower in non-working horses obtaining acid than in those obtaining alkaline rations, whilst after work there is a tendency for it to decrease with both kinds of food. Blood-sugar changes only slightly during work on acid or alkaline diets. During fatiguing work the blood-lactic acid of horses on an acid ration does not change or increases only slightly, whilst on an alkaline diet it increases. Similar results are obtained with rabbits after prolonged work. Oxidative and synthetic processes are not disturbed to such an extent by fatiguing work on acid as on alkaline rations. In consequence of increased oxidation and catabolic metabolic products are quickly eliminated and muscle-glycogen supplies are rapidly supplemented. J. N. A.					
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION					
1ST ORDER		2ND ORDER		3RD ORDER	
SUBGROUP		SUBGROUP		SUBGROUP	
SUBGROUP		SUBGROUP		SUBGROUP	

RIBAK, P.T.; SAVICH, V.V.

Chemical milling. Ratsionalizatsiya 15 no.5:20 '64

RIBAK, V.M.

Increasing the hardiness of clover. Visnyk AN URSR 26 no.10:
31-36 0 '55. (MIRA 9:1)
(Ukraine--Clover)

RESEARCH

(B)

Sofia, Travnik, Vol. 53, No. 8, 1961

1. "Tumors of the Uterus of the Cervix," M. V. Travnik (1961) pp 616-618
2. "A Case of Epithelial Carcinoma of the Uterus," M. V. Travnik (1961) pp 619-621
3. "Tumors of the Uterus as a Variant of the Cervix," M. V. Travnik (1961) pp 622-624
4. "Tumors of the Uterus as a Variant of the Cervix," M. V. Travnik (1961) pp 625-627
5. "A Case of Mass Infertility in the Uterus," M. V. Travnik (1961) pp 628-630
6. "Tumors of the Uterus as a Variant of the Cervix," M. V. Travnik (1961) pp 631-633
7. "A Case of Epithelial Carcinoma of the Uterus," M. V. Travnik (1961) pp 634-636
8. "Tumors of the Uterus as a Variant of the Cervix," M. V. Travnik (1961) pp 637-639

Abbreviation not identified.
1. Zvezdichitskaya, Vladimir.

1A

RIEAKOV, B.

"In the land of the Vistula." Tr. from the Russian. p. 495. (Termesztet es Technika, Vol. 112, no. 8, Aug 53, Budapest)

SO: Monthly List of East European Accessions, Vol 3 No 2 Library of Congress Feb 54 Uncl

Salinization of soils in the black earth zone. Al. Al.
Rybakova. /Proc. Inst. Soil Sci., Section 2, 1961, 196.
The origin of the soil formations is discussed.
B. C. P. A.

BC

B-III-1

Salinization of soils in the black-earth zone.
M. M. RYBAKOV (Proc. Conf. Soil Sci., Saratov, 1937,
2, 71-84).—The origin of the soil formations is dis-
cussed.
R. T.

ASS-51A METALLURGICAL LITERATURE CLASSIFICATION

FROM DIVISION

TO DIVISION

RELATIONS

FROM DIVISION

TO DIVISION

RIBAKOVA S. I. GORODISSKAIA G. Ia., NEIMAN M. B., AND SHNOL R. B.

5185. GORODISSKAIA G. Ia., NEIMAN M. B., RIBAKOVA S. I. and SHNOL R. B. Effect of camphor and tetramethylammonium iodide on phosphorus metabolism in rats and frogs Dokladi Akademii Nauk SSSR, Moscow 1950, 69/6 (833-836) Graphs 3 Tables 2

A study of phosphorus metabolism under the influence of camphor (I) and tetramethylammonium iodide (II), using radioactive phosphorus, showed that the I increases phosphorus metabolism in various tissues of the rat, while II has the opposite effect on phosphorus metabolism in frog muscles. The kinetic method of investigation used is recommended for this kind of work, since the usual methods sometimes lead to gross errors.
Fuks - Zagreb

SO: Excerpta Medica, Section II Volume III No. 9

RIBAL, Miloslav, inz.; HANUS, Stanislav, inz.; BERNASEK, Vladimir

Use repellents as protection against damage caused by deer. Agrochem
2 no.1:18-22 '62.

1. Ceskoslovenska akademie zemedelskych ved, Vyzkumny ustav lesniho
hospodarstvi a myslivosti, Zbraslav (for Ribal and Hanus). 2. Spolana,
Neratovice (for Bernasek).

PLEASE I DOCK EXPLOITATION
BOY/3:00

Trudy. tom 5 (Transactions of the Physics Institute of the Academy of Sciences of the USSR, Vol. 6) Tbilisi, 1958. 282 p.

PURPOSE: This book is intended for physicists and physical chemists, and may be used by students taking advanced courses in physics and physical chemistry.

CONTENTS: This is a collection of articles by members of the Physics Institute on such subjects as billiards, color centers, polarized neutrons in a magnetic field, effect of quaternary on copper oxide, digital computer program, α -resonance, air absorption, effect of normal gradient on crystals, and the theory of heavy movable particles. The last article, in Georgian, is a brief review of the development of Physics in Georgia during the past 40 years. Abstracts in English are given for each article. No periodicals are mentioned.

Castellani, O. D., and G. R. Russelshvili. Behavior of a Polarized Deuterium Beam in a Magnetic Field. *Phys. Rev. Lett.* 33: 1021 (1974).

In this article the authors discuss the double elastic scattering of a deuteron beam in a magnetic field, and obtain the expression for its angular distribution. It is shown that more data can be obtained on scattering amplitude and polarization by running the experiment in the presence of a magnetic field than without one.

Triethylaluminum; 2, 4, and 6. St. Kolmanitzke. Effect of Gamma Rays on the Catalytic Activity of Copper Oxides in the Reaction of Dehydrogenation of Ethyl Alcohol

The dependence of the catalytic activity of Cu₂O and Cu₂S on the radiation dose received by the catalyst is investigated in the reaction of dehydrogenation of ethyl alcohol. The irradiation induces an increase in Cu₂O activity followed by an increase in its resistance and a decrease in Cu₂S activity followed by a decrease in its resistance. The structure of the catalyst does not change the mechanism of the reaction.

Chavakis, V. V., R. B. Gaudin, and V. A. Farnsworth. 1994. A modified method for Kesteven-Pollon Cauchy Calculations by the Monte Carlo Method With Kinematic Compensation.

computation procedure is based upon an algorithm proposed for the computation of electron-photon cross-sections by the Karle-O'Neil method. This program is a part of a series of subroutines each of which is designed for a specific computational aspect of the electron-photon cross-section calculation. Each module is completed sequentially before a new module is completed. The proposed program can be modified to compute other problems solved by Karle-O'Neil methods.

141 Bibliography, M. P. Internal Distribution of the Penetrating Component of Hexamethylenediamine

In this section, the author studies the vertical distribution of the protecting component of stratospheric aerosols with a total number of particles between 10^5 and 5×10^7 in a tunnel at 400 meters above sea level and depth of 65, meters water equivalent. The investigation was carried out at distances of 1, 10, 20, 30, 45, and 60 meters from the source area.

Mattingly, S. O. Certain Problems in the Theory of Heavy Inelastic
Article: _____
173

It is well known that the decay is also influenced. A phenomenological investigation of π^+ production of strange particles is carried out. The authors propose experiments to check Pauli's statistical model of strange particles production. Some processes of π^+ production of strange particles are considered, taking into account the magnetic moments of hyperons and nucleons.

Parton, T. Development of Physics in Georgia During the Past 40 Years (Continuation of a Previous Article) 231

AVAILABLE: Library of Congress (QCL.A384 A1)

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8-17-60

COMMON ELEMENTS		PROCESS AND PROPERTIES INDEX		100 AND 1000 COEFFS	
M				2	
Dependence of the Diffusion Coefficient of Metals on Grain-Size. V. Buz- . . . and P. Babin. (<i>Ekspert Tekhnicheskoy Fiziki</i> (J. Tech. Physics), 1965, . . . (197), 1726-1734).—[In Russian.] Measurements of the rate of evaporation of zinc at 700°-800° C. from a-brown single crystals and from polycrystalline specimens with average grain-sizes of 0.13 mm., 0.37 mm., and 0.46 mm., showed that the diffusion coefficient (<i>D</i>) of zinc increases sharply with decrease in grain-size especially in the transition from a mono- to a polycrystalline specimen; thus at 700° C. for a single-crystal $D = 0.06 \times 10^{-6}$ and for a specimen with 0.13 mm. grain-size $D = 3.3 \times 10^{-6}$. At higher temperatures this difference is reduced. An explanation of the observed phenomena and a comparison with results observed for the electrolytic conductivity are given. —N. A.					
250-514 METALLURGICAL LITERATURE CLASSIFICATION					
FROM STUDYING		FROM DOMINANT		FROM LITERATURE	
10000 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		10000 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100		10000 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	

RIBAL, H.; HESSL, J.; FANTA, P.

Protection of forests against damages caused by game. p. 340.
(Sbornik Rada Lesnictvi, Vol. 30, no. 4, April 1957. Praha, Czechoslovakia)

SO: Monthly List of East European accessions (FEAL) LC, Vol. 6, no. 10, October 1957. Uncl.

1ST AND 2ND ORDERS										3RD AND 4TH ORDERS									
PROCESSES AND PROPERTIES INDEX																			
BC A-1 Dependence of diffusion coefficients of metals on grain size. W. BUBAKOV and F. RIBALDO (Tech. Phys. U.S.S.R., 1935, 2, 617-623; cf. Fonda et al., A., 1933, 771).—With varied temp. (T) and grain diameter (d), the diffusion coeff. (D_T) and heat of diffusion (Q) of Zn in brass have been determined by the evaporation method (B., 1937, 48). D_T increases with T and with decreasing d. For polycryst. metal Q is const. (16,700 g.-cal.); a higher val. is claimed for single crystals. An interpretation in terms of the intergranular structure is supported by available evidence. I. McA.																			
ASTM-A-1 METALLURGICAL LITERATURE CLASSIFICATION																			
STANDARDIZATION										STANDARDIZATION									
STANDARDIZATION										STANDARDIZATION									

BC

Velocity of grain growth in aluminium. M. KORNFIELD and F. RIBALDO (Physikal. Z. Soviet-union, 1937, 12, 653-658; cf. A., 1935, 433).—New grains develop with anisotropic velocity during the recrystallization of plastically deformed single crystals of Al. They join to the octahedral planes of the mother-crystal with different irrational plane indices. The anisotropic growth occurs within a narrow temp. range and vanishes at high temp. J. A. D.

AS 514 METALLURGICAL LITERATURE CLASSIFICATION

BOLSHANINA, M. A.

RIE-10, F. F.

M

V

2

*Anisotropy of Diffusion of Mercury into Zinc. M. A. Bolshanina and F. P. Ribalko (*Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki* (J. Exper. Theoret. Physics), 1937, 7, (2), 312-317).—[In Russian.] The rate of diffusion of mercury into zinc was studied in the directions normal to the basal plane and normal to the prism of the first order. The depth of penetration is an exponential function of the temperature, and the diffusion coeff. does not depend on the crystallographic direction. The energy necessary for a mercury atom to diffuse into the zinc lattice is 22% greater normal to the basal plane than normal to the prism of the first order. The differences in the diffusion rates in different directions are thus due to differences in the activation energies. An explanation is advanced to account for the decrease in the anisotropy of diffusion with increasing temperature.—N. A.

1ST AND 4TH GROUPS										2ND AND 3RD GROUPS									
PROCESSING AND PROPERTY INDEX																			
<i>*Anisotropy of Diffusion of Mercury into Zinc. M. A. Bolshagina and F. P. Ribalko (Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki (J. Exper. Theoret. Physics), 1937, 7, (2), 312-317).—[In Russian.] The rate of diffusion of mercury into zinc was studied in the directions normal to the basal plane and normal to the prism of the first order. The depth of penetration is an exponential function of the temperature, and the diffusion coeff. does not depend on the crystallographic direction. The energy necessary for a mercury atom to diffuse into the zinc lattice is 22% greater normal to the basal plane than normal to the prism of the first order. The differences in the diffusion rates in different directions are thus due to differences in the activation energies. An explanation is advanced to account for the decrease in the anisotropy of diffusion with increasing temperature.—N. A.</i>																			
ASR-51A METALLURGICAL LITERATURE CLASSIFICATION																			
1ST AND 4TH GROUPS										2ND AND 3RD GROUPS									
1ST AND 4TH GROUPS										2ND AND 3RD GROUPS									

RIBALKO, I.A. [Rybalko, I.A.], inzh.

Paste-making unit. Mekh. sil'. hosp. 13 no.7:18-19 J1 '62.
(MIRA 17:3)

1. Zaporozhskoye oblastnoye ob"yedineniye "Sil'gosptekhnika".

RIBALKO, M.P. [Rybalko, M.P.]

Pea harvesting with the SK-3 combine. Mekh. sil'. hosp. 14
no.6:11-12 Je '63. (MIRA 17:3)

1. Nachal'nik upravleniya vnedreniya novoy tekhniki Khar'kovskogo
oblastnogo ob'yedineniya "Sil'gosptekhnika".

MATKOVIC, B.; RIBAR, B.;

The crystal structure of cadmium nitrate tetrahydrate.
Croat chem acta 35 no.2:147-152 '63.

1. Institute "Ruder Boskovic", Zagreb, Croatia (for Matkovic).
2. Physics Department, Faculty of Science, University of Sarajevo, Sarajevo, Bosnia, Yugoslavia (for Ribar).

RIBAR, B., inz. (Beograd, Save Kovacevica 17)

Expression of ship stability by means of equivalent form.
Brodarstvo 4 no.15:631-649 Ap-Je '62.

RIPAR, Borivoj, ing. (Beograd, Save Kovacevics 17)

Optimum size and the ratio of dimensions of barges. Brodarstvo
no. 13:514-521 O-D 61.

RIBAR, Borivoj, inz. (Save Kovacevica 17, Beograd)

Optimum size and dimensional relationship of the freighters.
Brodarstvo 4 no.14:599-604 Ja-Mr '62.

RIBAR, Borivoje, ing. (Beograd, Save Kovacevica 17)

Determination of the dimensions of river passenger boats. Brodarstvo 3
no. 5/6:178-183 0 59 - Mr 60.

RIBAR, Borivoje, ing. (Beograd, Save Kovacevica br. 17)

Optimum size of pushed convoys. Brodarstvo 3 no. 8/9:300-308 JI-D 60.

PRAP, S.

The new system of work, a guarantee of success. p. 285
(Radnemat, Vol. 10, no. 11, Nov. 1956. Belgrade, Yugoslavia)

So: Monthly List of East European Accessions (JAL) 10, Vol. 6, no. 7,
July 1957, Incl.

RIBAR, S.

TECHNOLOGY

RIBAR, S. 20 years of the Zagreb Radio Club. p. 365

Vol. 11, no. 12, Dec. 1957

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass